

June 2, 2003

LICENSEE: Tennessee Valley Authority (TVA)

FACILITIES: Browns Ferry, Units 1, 2, and 3

SUBJECT: SUMMARY OF MEETING TO DISCUSS PLANNED LICENSE RENEWAL APPLICATION

On April 23, 2003, representatives of TVA met with the Nuclear Regulatory Commission (NRC) staff to discuss the submittal of a license renewal application for Browns Ferry, Units 1, 2, and 3 (Browns Ferry). The renewal application is scheduled to be submitted in December 2003, and based on established review schedules, the review would be completed during the Unit 1 restart process and review of the extended power uprate amendments. Attendees at the meeting are listed in Enclosure 1. TVA's presentation materials are contained in Enclosure 2 and Enclosure 3 contains the Browns Ferry Unit 1 restart schedule and renewal application examples. Enclosure 4 contains a list of the NRC staff's discussion topics.

TVA confirmed that it will follow the new standard application format and content developed for the 2003 renewal applications. Current license renewal implementation guidance will be used and the draft and final Interim Staff Guidance positions will be addressed. Differences between the units that will be eliminated when Unit 1 restart activities are completed will be identified by a box around the text. A new Appendix F, not in the standard format, will be included which discusses the resolution of the Unit 1 restart differences contained in the boxed text. After restart, all of the differences described in boxes should be eliminated and TVA does not anticipate any differences among the three units.

Separate sets of boundary drawings for each of the three units will be provided. The Unit 1 drawings will show the configuration at the time of application (before all restart changes have been implemented). Appendix F will explain the differences between the Unit 1 current licensing basis and the final licensing basis after restart and power uprates. Modifications for power uprates associated with the amendment requests and notification that restart activities (boxed text) have been completed will be submitted to the staff as part of the required 10 CFR 54.21(b) annual application updates.

TVA indicated that the same scoping and screening methodology will be used for all three units. Aging management programs will also be the same for all three units. No Unit 1 unique aging management programs due to the approximately 17 year shutdown and lay-up of the unit have been identified. TVA will perform an evaluation of the effects of the lay-up program on systems and components not being replaced as part of Unit 1 restart and will include the results of the evaluation in the application's Appendix F. Systems and components that have been in-service during the lay-up period to support the other units or that are being replaced during startup will not be evaluated as part of the lay-up evaluation described in the application. Replaced components within the scope of renewal will not be specifically identified in the application.

An amendment to uprate Units 2 and 3 from their current five percent uprate to a total of 20 percent is scheduled to be submitted in July 2003. TVA expects the Unit 2 and 3 uprate reviews to be completed before the renewed licenses are issued. The amendment to uprate Unit 1 by 20 percent will be submitted during the second quarter of 2005, near the end of the renewal review. TVA stated that the evaluations performed for the renewal application will consider the 20 percent uprate for all three units.

The NRC staff intends to complete the license renewal inspections for Units 2 and 3 to support issuing the renewed licenses. With the commonality in scoping methodology and aging management programs, the staff expects to be able to perform to a great extent, the inspections for Unit 1. However, it is expected that a final inspection will be required for Unit 1 prior to restart to complete those activities that could not be inspected due to Unit 1 restart activities.

The approach being considered for issuing the renewed licenses, if approved, is to issue the licenses for all three units at the completion of the renewal review. The Unit 1 license will include additional license conditions to ensure that the final configuration of Unit 1 matches the configuration described in the renewal application, that actions committed to or required as a result of the renewal review were completed, and that the NRC is notified that the documentation is available onsite and ready for the final inspection.

As previously discussed, TVA recognizes that the review of a combined renewal application for Units 1, 2, and 3 may take longer than the standard license renewal review schedule. TVA has proposed a one to three month extension of the schedule. The staff responded that with the potential complexity of Unit 1 restart and the separate extended power uprate amendments for Unit 1 and for Units 2 and 3, the application needs to be received and assessed before committing to the schedule. The staff and TVA agreed to continue discussions on the Browns Ferry renewal application with the next meeting proposed for September 2003.

A draft of this meeting summary was provided to TVA to confirm the accuracy of statements made prior to the summary being issued.

**/RA/**

Stephen T. Hoffman, Senior Project Manager  
License Renewal Section  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Dockets Nos.: 50-259, 50-260, and 50-296

Enclosures: As stated

cc w/encls: See next page

An amendment to uprate Units 2 and 3 from their current five percent uprate to a total of 20 percent is scheduled to be submitted in July 2003. TVA expects the Unit 2 and 3 uprate reviews to be completed before the renewed licenses are issued. The amendment to uprate Unit 1 by 20 percent will be submitted during the second quarter of 2005, near the end of the renewal review. TVA stated that the evaluations performed for the renewal application will consider the 20 percent uprate for all three units.

The NRC staff intends to complete the license renewal inspections for Units 2 and 3 to support issuing the renewed licenses. With the commonality in scoping methodology and aging management programs, the staff expects to be able to perform to a great extent, the inspections for Unit 1. However, it is expected that a final inspection will be required for Unit 1 prior to restart to complete those activities that could not be inspected due to Unit 1 restart activities.

The approach being considered for issuing the renewed licenses, if approved, is to issue the licenses for all three units at the completion of the renewal review. The Unit 1 license will include additional license conditions to ensure that the final configuration of Unit 1 matches the configuration described in the renewal application, that actions committed to or required as a result of the renewal review were completed, and that the NRC is notified that the documentation is available onsite and ready for the final inspection.

As previously discussed, TVA recognizes that the review of a combined renewal application for Units 1, 2, and 3 may take longer than the standard license renewal review schedule. TVA has proposed a one to three month extension of the schedule. The staff responded that with the potential complexity of Unit 1 restart and the separate extended power uprate amendments for Unit 1 and for Units 2 and 3, the application needs to be received and assessed before committing to the schedule. The staff and TVA agreed to continue discussions on the Browns Ferry renewal application with the next meeting proposed for September 2003.

A draft of this meeting summary was provided to TVA to confirm the accuracy of statements made prior to the summary being issued.

**/RA/**

Stephen T. Hoffman, Senior Project Manager  
License Renewal Section  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Dockets Nos.: 50-259, 50-260, and 50-296

Enclosures: As stated

cc w/encls: See next page

Distribution:

See next page

Document Name: C:\ORPCheckout\FileNET\ML031540295.wpd

OFFICE	RLEP:DRIP:PM	RLEP:DRIP:LA	RLEP:DRIP:SC
NAME	SHoffman	YEdmonds	SLee
DATE	5/28/03	6/2/03	6/2/03

OFFICIAL RECORD COPY

DISTRIBUTION: Meeting summary with TVA, Dated: June 2, 2003

**HARD COPY**

RLEP RF  
S. Hoffman

**E-MAIL:**

PUBLIC  
W. Borchardt  
D. Matthews  
F. Gillespie  
RidsNrrDe  
E. Imbro  
G. Bagchi  
K. Manoly  
W. Bateman  
J. Calvo  
C. Holden  
P. Shemanski  
H. Nieh  
H. Walker  
S. Black  
B. Boger  
D. Thatcher  
R. Pettis  
G. Galletti  
C. Li  
J. Moore  
R. Weisman  
M. Mayfield  
A. Murphy  
W. McDowell  
S. Smith (srs3)  
S. Duraiswamy  
C. Munson  
RLEP Staff

-----  
K. Jabbour  
C. Julian (RII)  
S. Cahill (RII)  
A. Hodgdon  
C. Carpenter  
D. Coe  
E. Kleeh  
S. Moore  
A. Howe

**ATTENDANCE LIST**  
**NRC STAFF MEETING WITH TENNESSEE VALLEY AUTHORITY**  
**BROWNS FERRY LICENSE RENEWAL**  
**APRIL 23, 2003**

<b>NAME</b>	<b>ORGANIZATION</b>
1. Steve Hoffman	NRC/NRR/DRIP/RLEP
2. Robert Pettis Jr.	NRC/DIPM/IEHB
3. Rani Franovich	NRC/DRIP/RLEP
4. Tim Abney	TVA/BFN/Licensing
5. Joe Valente	TVA/BFN/Restart Engineering
6. Ray Alexander	TVA/Engineering/LR
7. Gary M. Adkins	TVA/BFN LR Manager
8. Chang-Yang Li	NRC/DSSA/SPLB
9. Caudle Julian ☞	Region II
10. Steve Cahill ☞	Region II
11. Janice Moore	OGC
12. P.T. Kuo	NRC/DRIP/RLEP
13. Kamal Manoly	NRC/DE/EMEB
14. Ed Vigluicci	TVA/OGC
15. Kathryn M. Sutton	Winston & Strawn
16. Shelly Cole	NRC/OGC
17. Sam Lee	NRC/DRIP/RLEP
18. Jerry Weil	McGraw-Hill
19. M.M. Razzaque	NRR/DSSA/SRXB
20. Kimberly Corp	NRR/DRIP/RLEP
21. Stephanie Coffin	NRR/DE/EMCB
22. Ken Chang	NRR/DRIP/RLEP
23. Kahtan N. Jabbour	NRR/DLPM/PDII
24. Paul Prescott	NRR/DIPM/IEHB
25. Mike Morrison	TVA BFN Lic. Renewal

☞ By telephone

TENNESSEE VALLEY AUTHORITY MEETING WITH THE NRC STAFF  
BROWNS FERRY LICENSE RENEWAL  
APRIL 23, 2003

1. Overview
  - A. License renewal project status
  - B. Overview of restart, renewal, and uprate activities
2. License Renewal Application (LRA) Format
  - A. Use of NEI LRA standard format
  - B. Use regulatory guide, SRP, and GALL
  - C. Address interim staff guidance
  - D. Availability of CD-ROM version (LRA, FSAR, and scoping drawings)
3. Final Safety Analysis Report Content
  - A. Status of Unit 1 information
  - B. Use of LRA references to the FSAR for Units 1, 2, and 3
4. LRA Content
  - A. Confirm Unit 1 will be identical to Units 2 and 3 after restart and uprate
    1. No structure or component differences (e.g., due to obsolescence, technology improvements, etc.)
    2. Clearly identify permanent differences, if any
  - B. Describe both the Unit 1 configuration at time of submittal and the final configuration after restart and power uprate
  - C. Provide level of detail for Unit 1 consistent with renewal guidance and past LRAs (final design, materials, environments, AMPs, etc.)
  - D. CLB updates
  - E. Degree of commonality for three units
    1. Scoping methodology
    2. AMPs
    3. TLAAs

5. LRA - Unit 1 Lay-up

- A. Discuss Unit 1 lay-up program (procedures, controls, excursions, and evaluation of excursions)
- B. Assess the potential for the extended lay-up period to introduce additional aging effects and the need for new or modified Unit 1 aging management programs
- C. Identify structures and components replaced during Unit 1 restart
- D. Address conditions, aging effects, and AMPs for all SSCs/TLAAs in scope that are not being replaced
- E. Use of Unit 1 restart inspections in assessing conditions for SSCs not replaced

6. TLAAs

Describe approach for addressing current and final configuration (e.g., EQ program impacted by higher pressure/temperature accident gradients after uprate)

7. Scoping Drawings

- A. Final configuration for Units 1, 2, and 3  
(Identify where different from current configuration)
- B. Current configuration when final configuration differs due to restart or uprate modifications

8. License Renewal Inspections

- A. Units 2 and 3 - normal scoping, aging management review, and optional final
- B. Unit 1
  - 1. Include in scope of inspections with Units 2 and 3 to the maximum extent possible depending on the degree of commonality
  - 2. Final inspection prior to restart

9. Renewed License

- A. Unit 1 renewed license (with conditions) issued with Unit 2 and 3 licenses
- B. TVA certify prior to restart that:
  - 1. Unit 1 as-built matches LRA
  - 2. License renewal actions required prior to restart, if any, are complete
  - 3. Required documentation is available and Unit 1 is ready for final renewal inspection

10. Browns Ferry LRA Schedule

- A. Will exceed standard schedule of 22 months w/o hearing, 30 months w/hearing
- B. Establish schedule after receipt and assessment of LRA

Mr. J. A. Scalice  
Tennessee Valley Authority

**BROWNS FERRY NUCLEAR PLANT**

cc:

Mr. Karl W. Singer, Senior Vice President  
Nuclear Operations  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. Mark J. Burzynski, Manager  
Nuclear Licensing  
Tennessee Valley Authority  
4X Blue Ridge  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. James E. Maddox, Acting Vice President  
Engineering & Technical Services  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. Timothy E. Abney, Manager  
Licensing and Industry Affairs  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000  
Decatur, AL 35609

Mr. Ashok S. Bhatnagar, Site Vice President  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000  
Decatur, AL 35609

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
Browns Ferry Nuclear Plant  
P.O. Box 149  
Athens, AL 35611

General Counsel  
Tennessee Valley Authority  
ET 11A  
400 West Summit Hill Drive  
Knoxville, TN 37902

State Health Officer  
Alabama Dept. of Public Health  
RSA Tower - Administration  
Suite 1552  
P.O. Box 303017  
Montgomery, AL 36130-3017

Mr. Robert J. Adney, General Manager  
Nuclear Assurance  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Chairman  
Limestone County Commission  
310 West Washington Street  
Athens, AL 35611

Mr. Robert G. Jones, Plant Manager  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000  
Decatur, AL 35609

Mr. Fred Emerson  
Nuclear Energy Institute  
1776 I St., NW., Suite 400  
Washington, DC 20006-3708

Mr. J. A. Scalice  
Chief Nuclear Officer and  
Executive Vice President  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37404-2801